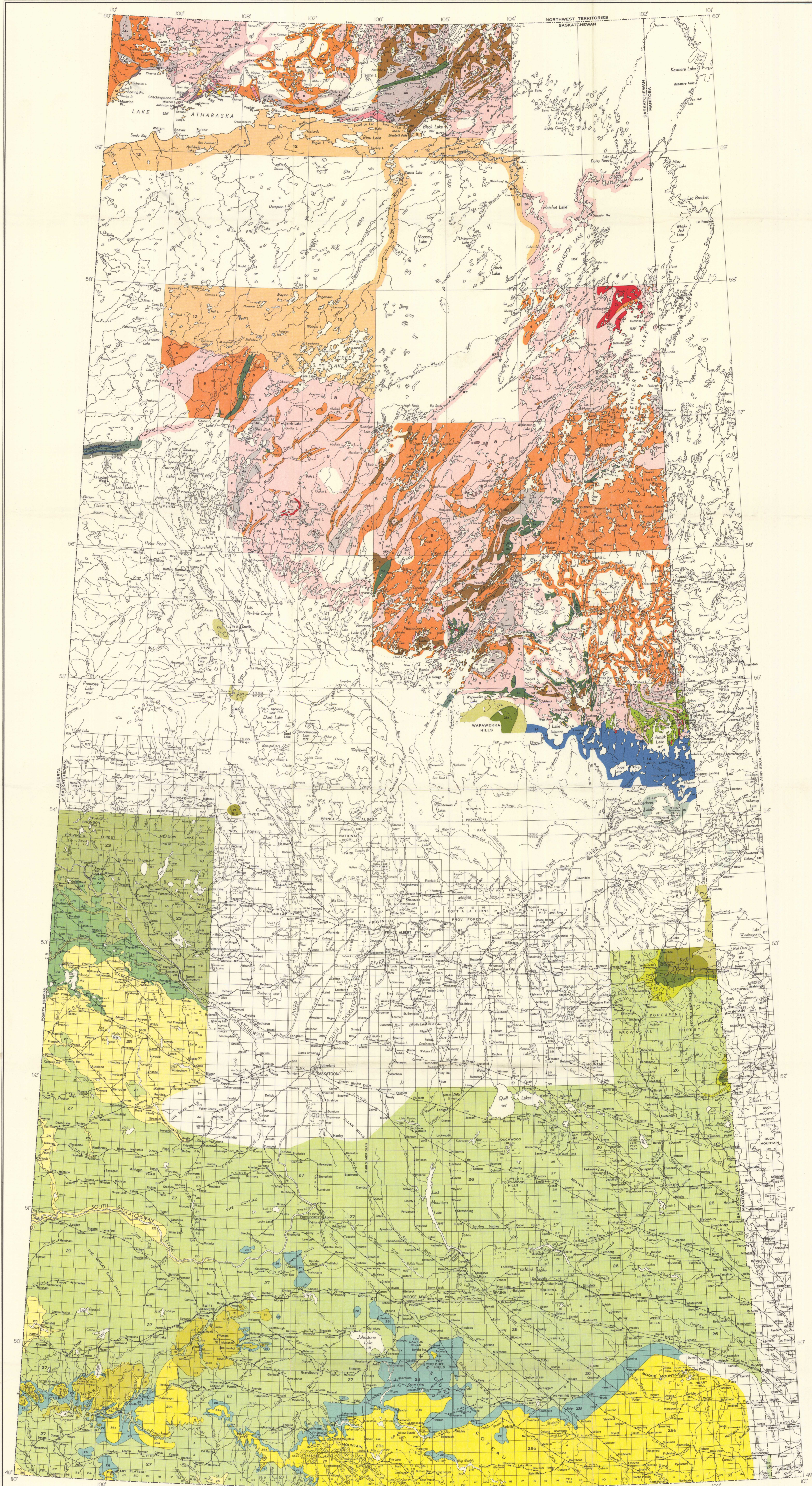


GEOLOGICAL SURVEY

LEGEND

- TERTIARY**
- MIOCENE**
- 32, 32A WOOD MOUNTAIN FORMATION: gravel, some sand, mostly unconsolidated; 32A, probably chiefly Miocene gravels
- OLIGOCENE**
- 31 CYPRESS HILLS FORMATION: conglomerate, sandstone
- Eocene**
- 30 SWIFT CURRENT BEDS: conglomeratic sandstone, sandstone
- PALEOCENE**
- 29 RAVENSCRAIG FORMATION: sand, silt, shale, clay, lignite; 29a, includes some Upper Cretaceous beds
- CRETACEOUS**
- UPPER**
- 28 EASTEND FORMATION: buff to brown silt and fine sand, grey shale, lignite
 28 WHITEHORN FORMATION: white, kaolinized sandstone, light coloured clay and silt, lignite
 28 BATTLE FORMATION: black and green bentonite, shale, silt
 28 FRENCHMAN FORMATION: mainly coarse sandstone
- 27 BEARPAW FORMATION: dark and grey shale, green sand, fine-grained sand and sandstone, in part glauconitic; also chert, gabbro, concretionary beds, bentonite; volcanic ash
- 25 OLDMAN FORMATION, PALE AND VARIATED BEDS: sandstone, sand, white to light grey bentonite, sand, light to dark grey shale, carbonaceous shale; brown ironstone nodules; coal; 25a, includes part of Foremost formation
- 24 RIBSTONE CREEK FORMATION: grey and greenish grey sand and sandstone, dark grey shale, sandy shale; coal seams
 24 GRIEZE BEAR FORMATION: dark grey shale
 24 BRINCH LAKE FORMATION: brownish and yellow weathering sand and sandstone
- 23 LEA FARM FORMATION: dark grey shale with bands of ironstone nodules, fine-grained sand and sandy shale; bentonite
- 22 VERMILION RIVER FORMATION (Morden, Byrne, and Pembina members): dark grey shale, calcareous speckled shale, bentonite
- 21 FAVEL FORMATION (Kold and Assiniboine members): siliceous speckled shale, limestone, bentonite; 21a, mainly shale, age uncertain
- LOWER (7) AND UPPER CRETACEOUS**
- 20 ASHVILLE FORMATION: dark grey shale; minor silt, sand, limestone, and bentonite
- LOWER CRETACEOUS**
- 19 CLEARWATER FORMATION: shale
- 17 JURASSIC (?) AND CRETACEOUS LOWER CRETACEOUS AND (?) EARLIER SWAN RIVER GROUP: sand, sandstone, shale, clay; 17a, sandstone, minor shale
- 15 MARGURAY FORMATION: sand, sandstone
- DEVONIAN**
- 16 Limestone, dolomite; 16a, may be Silurian
- SILURIAN**
- 15 Magnesian limestone, dolomite, limestone
- ORDOVICIAN**
- 14 Dolomite, dolomitic limestone, sandstone
- PROTEROZOIC**
- 13 Diabase
- 12 ATHABASKA SERIES: sandstone, conglomerate, arkose, minor basalt
- 11 Granite
- 10 Gabbro, norite, amphibolite, peridotite
- 9 BEAVERLODGE SERIES: quartzite, conglomerate, iron formation
- CHIEFLY ACIDIC INTRUSIVE ROCKS**
- 8 Granite, granodiorite, quartz diorite, and gneiss, with gneiss and porphyry equivalents; minor pegmatite and wackes; 8a, undifferentiated granitic intrusions and older gneiss; and schistose sedimentary and volcanic rocks
- CHIEFLY BASIC INTRUSIVE ROCKS**
- 7 Diorite, gabbro, anorthosite, amphibolite, hornblende, gneiss, peridotite, serpentinite; 7a, hornblende schist and gneiss associated with granitic rocks
- COMPLEX OF SEDIMENTARY, VOLCANIC, AND INTRUSIVE ROCKS**
- 6 Sedimentary and volcanic rocks and intrusions (mainly acidic); 6a, chiefly volcanic rocks (23 associated with intrusions (mainly basic)); 6b, sedimentary rocks (4) associated with acidic intrusions; 6c, chiefly sedimentary rocks (4a) associated with acidic intrusions
- VOLCANIC AND SEDIMENTARY ROCKS**
- 5 Andesite, rhyolite, quartzite, gneiss; derived biotite, hornblende, and hornblende schists and gneisses. Undifferentiated 5a and 5b
- CHIEFLY SEDIMENTARY ROCKS**
- 4 Quartzite, gneiss, arkose, conglomerate; derived micaceous and garnetiferous gneisses and schists (4a, quartzite, and 4b, gneiss); 4a, quartzite, argillite, slate, gneiss, arkose, conglomerate, limestone, dolomite, iron formation; derived micaceous and garnetiferous gneisses and schists, includes Tazin group, in part, may be of the same age as 2
- CHIEFLY VOLCANIC ROCKS**
- 3 Hornblende gneiss and schist, (includes gneiss, in minor part); 3a, andesite, basalt, rhyolite, trachyte, dacite, tuff, agglomerate; gneiss; derived schists and gneisses; includes Tazin group, in part; may be of the same age as 1
- CHIEFLY SEDIMENTARY ROCKS**
- 2 Gneiss, quartzite, slate, argillite, tuff, derived schists
- CHIEFLY VOLCANIC ROCKS**
- 1 Andesite, basalt, rhyolite, dacite, tuff, gneiss, agglomerate, quartz porphyry, gneiss; derived schists and gneisses; includes almost volcanic rocks
- Productive metal mine: x MIN FLOW
 Developed water-power site:
 Undeveloped water-power site:



Geology derived mainly from published and unpublished maps and reports of the Geological Survey and, in part, from map information kindly supplied by Imperial Oil Limited. Cartography by the Drafting and Reproducing Division, 1946.

For Mineral occurrences and Glacial striae, see Map 895A, Mineral Map of Saskatchewan, scale: 1 inch to 20 miles; Geological Survey, Canada, 1947.

MAP 895A
 GEOLOGICAL MAP
 OF
SASKATCHEWAN
 SCALE: ONE INCH TO TWENTY MILES = 1:267,200
 MILES 0 20 40 60 80 100
 KILOMETRES 0 20 40 60 80 100

NOT TO BE TAKEN FROM LIBRARY
 NE PAS SORTIR DE LA BIBLIOTHEQUE
 895A

This map has been produced from a scanned version of the original map
 Reproduction par numérisation d'une carte sur papier